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## L6AS0F7 JT-S508CL-8S

# L6AS0F7 JT-S508CL-8S 8-Port 10-Gigabit SFP+ L3 Managed Network Switch User Manual

Model: JT-S508CL-8S | Brand: L6AS0F7

## 1. INTRODUCTION

This manual provides comprehensive instructions for the installation, configuration, operation, and maintenance of the L6AS0F7 JT-S508CL-8S 8-Port 10-Gigabit SFP+ L3 Managed Network Switch. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage.

## 2. PRODUCT OVERVIEW

The L6AS0F7 JT-S508CL-8S is an 8-port 10-Gigabit SFP+ Layer 3 managed network switch designed for high-performance networking environments. It supports advanced features such as DHCP, dynamic routing, VLAN division, and port aggregation.



Figure 2.1: Front Panel of the JT-S508CL-8S Switch

This image displays the front panel of the L6AS0F7 JT-S508CL-8S network switch. Visible components include eight SFP+ ports for 10-Gigabit fiber connections, a console port for command-line interface access, a power indicator (PWR), a system status indicator (SYS), and individual link/activity LEDs for each SFP+ port, indicating 10G, 1000M, or 2.5G speeds.

### 2.1 Front Panel Components

- **PWR LED:** Indicates power status. Green for power on.
- **SYS LED:** Indicates system status. Blinking for normal operation.
- **Console Port:** RJ45 port for local management via CLI.
- **SFP+ Ports (1-8):** Eight 10-Gigabit SFP+ slots for fiber optic transceivers.
- **LNK/ACT LEDs:** Individual LEDs for each SFP+ port, indicating link status and activity.

- **Reset Button:** Recessed button to reset the device to factory defaults (press and hold).

## 3. SETUP

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### 3.1 Physical Installation

Ensure the switch is placed on a stable, flat surface or mounted in a standard 19-inch rack (if rack-mount ears are provided, which are not specified in the current data). Maintain adequate ventilation around the device to prevent overheating. Avoid placing the switch near sources of electromagnetic interference, excessive heat, or moisture.

### 3.2 Power Connection

1. Connect the power adapter (not specified, assume external or internal) to the switch's power input.
2. Plug the power cord into a grounded electrical outlet.
3. Verify that the PWR LED on the front panel illuminates, indicating the switch is receiving power.

**Note: The product specifications indicate "Power Plug Type: No Plug". This implies the power supply might be integrated or requires a specific type of power input not detailed. Consult the packaging or manufacturer for exact power requirements.**

### 3.3 Network Connection

Connect SFP+ transceivers (not included) into the SFP+ ports. Use appropriate fiber optic cables to connect the switch to other network devices such as servers, storage, or other switches. Ensure the transceivers and cables match the required speed (10G, 2.5G, or 1G) and fiber type.

### 3.4 Initial Configuration Access

The switch can typically be configured via a web-based graphical user interface (GUI) or a command-line interface (CLI) through the console port. Refer to the manufacturer's documentation for default IP addresses, usernames, and passwords for initial access.

- **Web GUI:** Connect a computer to any SFP+ port (with appropriate transceiver and cable) and configure its IP address to be in the same subnet as the switch's default IP. Open a web browser and enter the switch's default IP address.
- **CLI (Console Port):** Connect a console cable (e.g., RJ45 to DB9) from the switch's console port to a computer's serial port. Use a terminal emulation program (e.g., PuTTY, Tera Term) with settings typically 115200 bps, 8 data bits, no parity, 1 stop bit, no flow control.

## 4. OPERATING INSTRUCTIONS

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The L6AS0F7 JT-S508CL-8S is a Layer 3 managed switch, offering extensive configuration options. This section outlines key functionalities.

### 4.1 Basic Management

After initial access, it is recommended to change the default administrator password for security. Configure basic network settings such as the switch's IP address, subnet mask, and default gateway.

### 4.2 VLAN Configuration

The switch supports VLAN (Virtual Local Area Network) division. VLANs segment a network into smaller, isolated broadcast domains, improving security and performance. Configure VLANs by assigning ports to specific VLAN IDs and setting port modes (access or trunk).

## 4.3 Port Aggregation (LAG)

Port Aggregation (Link Aggregation Group, LAG) combines multiple physical links into a single logical link, increasing bandwidth and providing link redundancy. Configure LAGs by selecting member ports and setting the aggregation mode (e.g., LACP).

## 4.4 DHCP Support

The switch supports DHCP (Dynamic Host Configuration Protocol) functionalities, including DHCP server and DHCP relay. A DHCP server automatically assigns IP addresses to devices on the network. DHCP relay forwards DHCP requests between clients and a DHCP server located on a different subnet.

## 4.5 Dynamic Routing

As a Layer 3 switch, the JT-S508CL-8S supports dynamic routing protocols. These protocols allow the switch to automatically learn network routes and adapt to topology changes, facilitating efficient data forwarding across different subnets. Specific supported protocols (e.g., OSPF, RIP) would be detailed in the full product documentation.

# 5. MAINTENANCE

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## 5.1 Firmware Updates

Regularly check the manufacturer's website for firmware updates. Firmware updates can provide new features, performance improvements, and security patches. Follow the provided instructions carefully when performing a firmware upgrade to avoid damaging the device.

## 5.2 Configuration Backup and Restore

It is highly recommended to regularly back up the switch's configuration. This allows for quick restoration of settings in case of accidental changes or device replacement. The configuration can typically be saved to a local computer via the web GUI or CLI.

## 5.3 Cleaning

Keep the switch clean and free of dust. Use a soft, dry cloth to wipe the exterior. Do not use liquid or aerosol cleaners directly on the device. Ensure ventilation openings are clear of obstructions.

# 6. TROUBLESHOOTING

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- **No Power:**

Ensure the power cord is securely connected to both the switch and a working power outlet. Check the power adapter (if external) and the power source. Verify the PWR LED is illuminated.

- **No Link on Port:**

Check the SFP+ transceiver and fiber optic cable. Ensure the connected device is powered on and properly configured. Verify that the LNK/ACT LED for the port is illuminated.

- **Cannot Access Web GUI/CLI:**

Verify the switch's IP address and ensure your computer is in the same subnet. Check physical network connections. If using CLI, ensure console cable and terminal settings are correct. Try resetting the switch to factory defaults if access is completely lost (refer to Reset Button in Product Overview).

- **Slow Network Performance:**

Check for network loops, excessive broadcast traffic, or misconfigured VLANs. Verify port speeds and duplex settings. Ensure SFP+ transceivers are compatible and functioning correctly.

## 7. SPECIFICATIONS

Feature	Description
Model Number	JT-S508CL-8S
Brand	L6AS0F7
Switch Type	Ethernet, L3 Managed
Ports	8 x 10-Gigabit SFP+ Ports
Transmission Rate	10000 Mbps (10Gbps)
Switching Capacity	160Gbps
Communication Mode	Full-Duplex & Half-Duplex
VLAN Support	Yes
DHCP Support	Yes (Server and Dynamic Routing)
Port Aggregation	Yes
Certifications	CE, FCC, RoHS, WEEE
Power Plug Type	No Plug (Requires specific power input, consult manufacturer)
ASIN	B0DWSSLRVY

Note: Physical dimensions and weight are not accurately specified in the provided data. Please refer to the product packaging or manufacturer's official website for precise physical specifications.

## 8. WARRANTY AND SUPPORT

For warranty information, technical support, and additional resources, please refer to the official L6AS0F7 website or contact their customer service department. Keep your purchase receipt for warranty claims.

**Manufacturer:** L6AS0F7

**Date First Available:** February 11, 2025